

Storm Data and Unusual Weather Phenomena - April 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAKE MICHIGAN				
PT WASHINGTON TO NORTH PT LT WI COUNTY --- 0.6 N PORT WASHINGTON [43.39, -87.87]				
	04/10/11 21:44 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	04/10/11 21:50 CST		0	Source: C-MAN Station
Severe thunderstorm wind gusts lasted 6 minutes.				
NORTH PT LT TO WIND PT WI COUNTY --- 3.5 SE NORTH POINT LTHOUSE [43.05, -87.88]				
	04/10/11 21:45 CST		0	Marine Thunderstorm Wind (MG 40 kt)
	04/10/11 21:45 CST		0	Source: C-MAN Station
WIND PT LT WI TO WINTHROP HBR IL COUNTY --- 1.2 ENE KENOSHA [42.59, -87.81]				
	04/10/11 22:20 CST		0	Marine Thunderstorm Wind (MG 36 kt)
	04/10/11 22:30 CST		0	Source: C-MAN Station
Severe thunderstorm wind gusts lasted 10 minutes.				
Line of severe thunderstorms produced brief wind gusts exceeding 33 knots in the late evening.				
WISCONSIN, Southeast				
DODGE COUNTY --- 1.0 SE BEAVER DAM [43.46, -88.82]				
	04/03/11 10:35 CST		12K	Hail (0.75 in)
	04/03/11 10:40 CST		0	Source: Newspaper
A shower of 3/4 inch hail produced icy roads that caused a two-vehicle accident on State Highway 151 north of State Highway 33, north of Beaver Dam. A 26-year-old Green Bay woman was killed, and the male drivers of the two vehicles were injured.				
LAFAYETTE COUNTY --- 0.5 E BELMONT [42.73, -90.32]				
	04/03/11 19:55 CST		0	Hail (1.75 in)
	04/03/11 19:55 CST		0	Source: Trained Spotter
LAFAYETTE COUNTY --- 0.5 NW DARLINGTON [42.69, -90.13]				
	04/03/11 19:55 CST		0	Hail (1.75 in)
	04/03/11 19:55 CST		0	Source: Law Enforcement
DANE COUNTY --- MT HOREB [43.00, -89.73], 1.0 E MT HOREB [43.00, -89.71]				
	04/03/11 20:20 CST		0	Hail (1.75 in)
	04/03/11 20:25 CST		0	Source: Amateur Radio
DANE COUNTY --- MIDDLETON [43.10, -89.50]				
	04/03/11 20:30 CST		0	Hail (2.00 in)
	04/03/11 20:30 CST		0	Source: Amateur Radio
DANE COUNTY --- 1.0 NE MIDDLETON [43.11, -89.49]				
	04/03/11 20:33 CST		0	Hail (2.50 in)
	04/03/11 20:33 CST		0	Source: Amateur Radio
DANE COUNTY --- MIDDLETON [43.10, -89.50]				
	04/03/11 20:35 CST		0	Hail (2.75 in)
	04/03/11 20:35 CST		0	Source: Trained Spotter
DANE COUNTY --- CAMP RANDALL STADIUM [43.07, -89.41]				
	04/03/11 20:38 CST		0	Hail (1.75 in)
	04/03/11 20:45 CST		0	Source: Broadcast Media

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DANE COUNTY --- 1.0 W MONONA [43.07, -89.34]				
	04/03/11 20:39 CST		0	Hail (2.00 in)
	04/03/11 20:39 CST		0	Source: Amateur Radio
DANE COUNTY --- CAMP RANDALL STADIUM [43.07, -89.41]				
	04/03/11 20:45 CST		0	Hail (1.75 in)
	04/03/11 20:45 CST		0	Source: Public
LAFAYETTE COUNTY --- GRATIOT [42.58, -90.02]				
	04/03/11 20:50 CST		0	Hail (1.75 in)
	04/03/11 20:50 CST		0	Source: Law Enforcement
DANE COUNTY --- MIDDLETON [43.10, -89.50]				
	04/03/11 20:51 CST		0	Hail (2.50 in)
	04/03/11 20:51 CST		0	Source: Public
DANE COUNTY --- DE FOREST [43.25, -89.33]				
	04/03/11 20:55 CST		0	Hail (1.75 in)
	04/03/11 20:55 CST		0	Source: Public
COLUMBIA COUNTY --- FALL RIVER [43.38, -89.05]				
	04/03/11 21:15 CST		0	Hail (1.00 in)
	04/03/11 21:15 CST		0	Source: Public
JEFFERSON COUNTY --- 4.0 NNW LAKE MILLS [43.13, -88.93]				
	04/03/11 21:20 CST		0	Hail (0.88 in)
	04/03/11 21:20 CST		0	Source: Public
DODGE COUNTY --- 4.0 NNW WATERTOWN [43.25, -88.75]				
	04/03/11 22:04 CST		0	Hail (1.00 in)
	04/03/11 22:04 CST		0	Source: Trained Spotter
DODGE COUNTY --- 4.0 NE IRON RIDGE [43.44, -88.47], 3.8 ENE HERMAN CENTER [43.44, -88.40]				
	04/04/11 00:15 CST		0	Thunderstorm Wind (EG 70 kt)
	04/04/11 00:21 CST		0	Source: Trained Spotter
WASHINGTON COUNTY --- 0.7 S NENNO [43.44, -88.40], WEST BEND [43.42, -88.18]				
	04/04/11 00:21 CST		0	Thunderstorm Wind (EG 70 kt)
	04/04/11 00:33 CST		0	Source: Trained Spotter

Trees were blown down, shingles were torn off roofs and a corn crib was blown over by thunderstorm winds estimated at 80 mph (70 knots). This Dodge County damage swath continued into Washington County and ended in West Bend. Collectively the damage swath was roughly 14 miles long. The width of the damage swath was about 2 miles.

Trees were blown down and shingles were torn off roofs by thunderstorm winds estimated at 80 mph (70 knots). This Washington County damage swath actually started in Dodge County about 4 miles northeast of Iron Ridge. The entire damage swath stretched for roughly 14 miles and had a width of about 2 miles.

Two rounds of thunderstorms affected southern Wisconsin on April 3rd, as low pressure moved northeast from Iowa across Wisconsin. Morning elevated thunderstorms, with warm air advection on the nose of a low-level jet ahead of the approaching low, did not produce severe weather...but a shower of small hail created icy road conditions in Dodge County, where a two-vehicle accident killed a 26 year old female and injured two others. During the afternoon hours, a warm front lifted into southern Wisconsin as the low moved into the state...with mean layer CAPE increasing to 1000 to 1500 J/kg along with strong low layer shear and deep layer bulk shear. This triggered the second round of thunderstorms in the evening that were severe, producing mainly large hail up to the size of a baseballs, along with damaging winds. Madison-based American Family Insurance Company reported 375 property claims as well as 200 vehicle damage claims in Dane and Dodge counties alone. There were probably more damaged vehicles that weren't reported to insurance companies. Roof damage caused by the golf ball to baseball-sized hail was extensive in the western suburbs of Madison, with some homes and businesses requiring whole-roof replacements. It was not possible to break up the insurance company claims and assign monetary losses to individual storms. Total monetary losses were probably in the low millions of dollars.

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GREEN LAKE COUNTY --- 3.6 SSE BERLIN [43.92, -88.91], 3.0 SE BERLIN [43.94, -88.89]				
	04/10/11 19:27 CST		0.30K	Tornado (EF0, L: 1.83 mi , W: 50 yd)
	04/10/11 19:29 CST		0	Source: NWS Storm Survey
An EF0 tornado developed about 3.5 miles south-southeast of Berlin just south of the intersection of County Road F and County Road AA and traveled northeast about 1.8 miles before dissipating on Meadow Brook Road just east of County Trunk Highway V. The tornadic winds sucked lawn furniture from under a porch where it was being stored and threw it against a fence. Tree branches were snapped and a wooden structure received light damage along the path of the tornado. There was \$300 dollars of damage done to an outdoor spa. The exact start location was Lat 43.91978 Lon -88.91302. The exact end locations was Lat 43.93922 Lon -88.88818. The EF-rating was based on DI 27 (TH), DOD 2 which suggests winds speeds around 80 mph. The average path width of the tornado was 30 yards.				
WAUKESHA COUNTY --- 2.0 SW MUSKEGO [42.88, -88.16], MUSKEGO [42.90, -88.13]				
	04/10/11 21:28 CST		0	Thunderstorm Wind (EG 70 kt)
	04/10/11 21:30 CST		0	Source: Law Enforcement
A severe thunderstorm produced damaging wind gusts estimated up to 80 mph (70 knots). Trees were knocked down and tree branches were broken along the path of the strong winds.				
MILWAUKEE COUNTY --- 2.0 W (MKE)MITCHELL APT MI [42.95, -87.94]				
	04/10/11 21:45 CST		0	Thunderstorm Wind (EG 57 kt)
	04/10/11 21:45 CST		0	Source: Trained Spotter
A severe thunderstorm produced damaging wind gusts estimated up to 65 mph (57 knots). Trees were knocked down and tree branches were broken by the strong winds.				
MILWAUKEE COUNTY --- WEST ALLIS [43.00, -87.97]				
	04/10/11 21:45 CST		0	Thunderstorm Wind (EG 61 kt)
	04/10/11 21:45 CST		0	Source: Trained Spotter
A severe thunderstorm produced damaging wind gusts estimated up to 70 mph (61 knots). Trees were knocked down and tree branches were broken by the strong winds.				
An outbreak of severe thunderstorms, caused by low pressure moving from southwest Minnesota across northwest Wisconsin, produced 10 tornadoes in Wisconsin, which tied a record for the largest number of tornadoes in one day in the month of April in the state. Southern Wisconsin was in the warm sector of the system for most of the day, with a capping inversion preventing thunderstorm development until early in the evening. The exit region of an upper jet helped break the cap, with severe super-cell thunderstorms rapidly developing in an unstable environment, with surface-based CAPE of 2000 J/kg and strong vertical shear. There was one tornado reported in the Milwaukee/Sullivan County Warning Area, an EF0 tornado that tracked across northeast Green Lake County just southeast of Berlin. Severe thunderstorms produced damaging winds in Waukesha and Milwaukee counties.				
(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN, (WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON, (WI-Z060) OZAUCKEE, (WI-Z062) IOWA, (WI-Z063) DANE, (WI-Z064) JEFFERSON, (WI-Z065) WAUKESHA, (WI-Z066) MILWAUKEE, (WI-Z067) LAFAYETTE, (WI-Z068) GREEN, (WI-Z069) ROCK, (WI-Z070) WALWORTH, (WI-Z071) RACINE, (WI-Z072) KENOSHA				
	04/15/11 09:00 CST		69K	Strong Wind (MAX 47 kt)
	04/15/11 20:00 CST		0	
Southern Wisconsin was situated between a polar high pressure area centered over southeast Canada and a strong low pressure that tracked from the central Plains toward northwest Illinois during the day on April 15th. The resulting tight surface pressure gradient over the region produced sustained east winds of 25 to 35 mph with peak gusts between 45 and 54 mph over a nearly 12-hour period. Scattered power outages were noted across southern Wisconsin due to broken tree branches falling on to power-lines.				
(WI-Z046) MARQUETTE, (WI-Z047) GREEN LAKE, (WI-Z051) FOND DU LAC, (WI-Z052) SHEBOYGAN				
	04/19/11 12:00 CST		0	Winter Storm
	04/19/11 20:40 CST		0	
A strong late-season surface low pressure system crossed central Illinois into Lower Michigan on the 19th, bringing a variety of weather to southern Wisconsin. A tight 850 mb to 700 mb baroclinic zone over the region set up a strong frontogenetic response and isentropic lift with a strengthening low level flow ahead of the low...with rain showers and a few strong thunderstorms on the warm side of the system...and heavy wet snow to the north. The precipitation rates were enhanced by elevated instability and a strong dynamic contribution with the vigorous 500 mb short wave trough leading to thunder snow in the northern counties, and a severe thunderstorm in Rock County. The mix of rain, sleet and snow was accompanied by gusty east winds that lowered visibilities and added to the difficult driving conditions that led to numerous vehicle accidents across the region. Maximum storm-total snowfall amounts ranged from 6 to 7 inches in the northern parts of the counties of Green Lake and Marquette.				

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(WI-Z056) SAUK, (WI-Z057) COLUMBIA, (WI-Z058) DODGE, (WI-Z059) WASHINGTON				
	04/19/11 12:00 CST		0	Winter Weather
	04/19/11 20:40 CST		0	

A strong late-season surface low pressure system crossed central Illinois into Lower Michigan on the 19th, bringing a variety of weather to southern Wisconsin. Rain showers and a few strong thunderstorms occurred on the warm side of the system...and heavy wet snow to the north. Some thunder-snow was reported. The mix of rain, sleet and snow was accompanied by gusty east winds that lowered visibilities and added to the difficult driving conditions that led to a number of vehicle accidents across the region. Snowfall amounts were generally in the 3 to 5 inch range.

ROCK COUNTY --- 1.1 W BELOIT JCT [42.50, -89.04]

04/19/11 12:30 CST	0	Thunderstorm Wind (EG 65 kt)
04/19/11 12:30 CST	0	Source: Law Enforcement

Strong winds from a thunderstorm, enhanced by a gravity wave passing through the region, produced a wind gust estimated at 65 knots (75 mph) in the city of Beloit. The strong winds collapsed the roof of a day care center. Heavy rain and hail were also occurring at the time of the roof collapse.

SHEBOYGAN COUNTY --- 1.4 E PLYMOUTH [43.75, -87.95]

04/19/11 17:40 CST	3K	Lightning
04/19/11 17:40 CST	0	Source: Newspaper

Lightning struck a utility pole, destroying an insulator and caused an electrical wire to break and fall to the ground. 500 homes and businesses were left without power on the east side of Plymouth, until repairs were made and all power was restored around 915 pm CDT.

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